

1190

# ESTIMATE FOR RAISING COMPENSATORY AFFORESTATION PLANTATION UNDER HAPOLI FOREST DIVISION

Name of project

Construction of 132 KV SC on DC tower T/L from Tezu to Halaipani

User Agency : Power Deptt.  
Location of CA : Kamle RF  
Area of CA : 334.33 ha  
Wages rate (DL) : 333/-

		Unit	Qnt	Rate	Amount	
<b>A</b>	<b>Creation of Nursery</b>					
	Cost of seedlings @ 1100 Nos. / ha.	ha	367763	18	6619734	
<b>1</b>	<b>1ST YEAR OPERATION</b>					
	Survey & demarcation and preparation of map @ 4 mandays/ha.	ha	334.33	1332	445328	
<b>2</b>	<b>2ND YEAR OPERATION</b>					
	(i) Erection of barbed wire fence (5 strand) fencing per 100 Rmt.	Rmt	10200	231.52	2361504	
	(ii) Maint. Barbed wire fencing @ 5% of erection cost in each year from 3rd year to 6th year Add.					
	Add 10% escalation value by multiplying factor:					
	1.20 for 3rd year					
	1.3 for 4th year					
	1.4 for 5th year					
	1.5 for 6th year					
<b>3</b>	<b>Raising of seedlings for casualty replacement</b>	<b>No.</b>	<b>91941</b>	<b>18.0</b>	<b>1654938</b>	
	3rd year 15%=165 Nos					
	4th year 10%= 110 Nos. Total= 275 Nos.					
<b>4</b>	<b>RAISING OF PLANTATION</b>					
	(i) Clearance of brush wood, planting lines & staking of debries @ 15 mandays/ha.	ha	334.33	53114	17757604	
	(ii) Alignment of pits & preparation of stakes, staking @ 10 mandays/ha					
	(iii) Digging of pits 30 Cm X 30 Cm X 30 Cm @ 22 mandays/ha					
	(iv) Preperation of thala by uprooting of debris by hoeing around pits @ 22 mandays/ha					
	(v) Carring of sapling to the planting site i/c planting of sapling @ 30 mandays (Area II) & 20 mandays (Area-I0/ha					
	(vi) Making of inspection path 1mtr wide @ 3 mandays/ha					
	(vii) Fire line cutting 3mtrs wide along the periphery @ 5 mandays/ha					
	(viii) Tending - 4 weeding @ 12 mandays/weeding/ha					

	Add 10% escalation value on total of item 4(i) to 4(viii)					
5	<b>3RD YEAR OPERATION</b>	ha	334.33	17982	6011922	
	(i) Tending - 3 weeding @ 12 mandays/ha					
	(ii) Casualty replacement 15%					
	(iii) Maint. of inspection path @ 1 manday/ha					
	(iv) Maint. Of fireline @ 1 manday/ha					
	Add 20% escalation value on total of item 5(i) to 5(iv)					
6	<b>4TH YEAR OPERATION</b>	ha	334.33	14286	4776238	
	(i) Tending -2 weedings @ 12 mandays/weeding/ha					
	(ii) Casualty replacement 10% @ 7 mandays/ha					
	(iii) Maint. Of inspection path @ 1 manday/ha					
	(iv) Maint. of fireline @ 1 manday/weeding/ha					
	Add 30% escalation value on item 6(i) to 6(iv)					
7	<b>5TH YEAR OPERATION</b>	ha	334.33	6527	2182172	
	(i) Tending - 1 weedings @ 12 mandays/weeding/ha					
	(ii) Maint. of inspection path @ 1 manday/ha					
	(iii) Maint. Of fire line @ 1 manday/ha					
	(iv) Add paid holiday @ 18.63% on item 7(i) to 7 (iii)					
	Add 40% escalation value on item 7(i) to 7(iv)					
8	<b>6TH YEAR OPERATION</b>	ha	334.33	6993	2337970	
	(i) Tending - 1 weedings @ 12 mandays/weeding/ha					
	(ii) Maint. of inspection path @ 1 mnday/ ha.					
	(iii) Maint. of fireline @ 1 manday/ha.					
	Add 50% escalation value on item 8(i) to 8(iii)					
9	<b>7TH YEAR OPERATION</b>	ha	334.33	2664	890655	
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	Add 60% escalation value on total item 9(i)					
10	<b>8TH YEAR OPERATION</b>	ha	334.33	2831	946488	
	(i) Maint. of inspection path / fireline & climbing cutting @ 5 mandays/ha					
	Add 70% escalation value on item 10(i)					



11	<b>9TH YEAR OPERATION</b>	ha	334.33	3150	1053140	
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	Add 80% escalation value on total of item 11(i)					
12	<b>10TH YEAR OPERATION</b>	ha	334.33	3164	1057820	
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	Add 90% escalation value on total of item 12 (i)					
13	Wages for plantation watchman at the rate of Un/skilled labourer round the year for 10 year (one watchman for every 25 ha) @ 10000/- for Area-I & Rs.10500/- for Area-II per month. Add escalation value by multiplying factor 1st year.	No.	13	1740000	22620000	
	(M.F=1.1) for 2nd year					
	(M.F=1.2) for 3rd year					
	(M.F=1.3) for 4th year					
	(M.F=1.4) for 5th year					
	(M.F=1.5) for 6th year					
	(M.F=1.6) for 7th year					
	(M.F=1.7) for 8th year					
	(M.F=1.8) for 9th year					
	(M.F=1.9) for 10th year					
14	a) Const. of OBT labour shed (2 room) for workers at Plantation site subject to a minimum area of 15 ha and upto 25 ha beyond 25 ha one room to be added for every 13 ha or part thereof at proportionate cost.	No.	13	492000	6396000	
	b) Maint. Of OBT hut @ 25% of the const. Cost per year from 4th year to 6th year including escalation value by multiplying factor					
	1.3 for 4th year					
	1.4 for 5th year					
	1.5 for 6th year					
15	a) Constn. Of Modified Improved Basha Type standard size quarter for every 50 ha.	No.	6.00	2439700	14638200	
	b) Maint. Of @ 20% of constn. Cost per year (from 2nd year to 9th year) including:					
	1.2 for 3rd year					
	1.3 for 4rd year					
	1.4 for 5rd year					
	1.5 for 6rd year					
	1.6 for 7rd year					

	1.7 for 8rd year					
	1.8 for 9rd year					
16	a) If CA area is 10 Km away from the nearest forest office/establishment 1(one) constn. Of SPT Beat Office (31.39 sqm) for area over 100 ha.	No.	1.00	1517173	1517173	
	b) Maint. Of @ 10% of constn. Cost per year (from 2nd year to 9th year) including:					
	1.2 for 3rd year					
	1.3 for 4rd year					
	1.4 for 5rd year					
	1.5 for 6rd year					
	1.6 for 7rd year					
	1.7 for 8rd year					
	1.8 for 9rd year					
17	Provision for plantation Supervisor for every 150 ha @ Rs.11000/- for Area-I & Rs. 11500/- for Area-II per month for 10 years where CA area is more than 150 ha adding escalation vlue as item No.13 above adding escalation value by multiplying factor as below.	No.	2.00	1914000	3828000	
	(M.F=1.1) for 2nd year					
	(M.F=1.2) for 3rd year					
	(M.F=1.3) for 4th year					
	(M.F=1.4) for 5th year					
	(M.F=1.5) for 6th year					
	(M.F=1.6) for 7th year					
	(M.F=1.7) for 8th year					
	(M.F=1.8) for 9th year					
	(M.F=1.9) for 10th year					
18	a) Cost of LMV in case of CA area is more than 300 ha in one Division	No	1.00	1200000	1200000	
	a) Cost of HMTV in case of CA area is more than 300 ha in one Division	No	1.00	1600000	1600000	
19	01 (one) driver @ Rs.11000 for Area 1 & Rs. 11500 for Area-II per month for a period of 10 years for CA area more than 300 ha	No.	2.00	2001000	4002000	
	(M.F=1.1) for 2nd year					
	(M.F=1.2) for 3rd year					
	(M.F=1.3) for 4th year					
	(M.F=1.4) for 5th year					
	(M.F=1.5) for 6th year					
	(M.F=1.6) for 7th year					
	(M.F=1.7) for 8th year					
	(M.F=1.8) for 9th year					



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	(M.F=1.9) for 10th year					
20	Approach foot track to plantation in area where necessary	Rmt	2500	6.57	16425	
21	Monitoring, Supervision (POL, Maint. of vehicles, including TE etc.) @ 12% and Contingency @ 3% to meet up unseen expenditure i.e 15% on item No.1 to16 plus Nursery cost to meet the unforeseen expenditure Rs.103913310/-				15586997	
22	Provision for soil and moisture conservation structures (where needed) @ Rs. 7200/- per ha.	ha	334.33	7200	2407176	
				<b>Total</b>	<b>121907483</b>	
						or say Rs.121907500

(Rupees twelve crore nineteen lakh seven thousand five hundred ) only

Prepared by

*[Signature]*

(D.K.Poddar) Addl. Chief Estimator  
O/O PCCF, Itanagar

*[Signature]*  
23.03.2023

(K.B.Singh)  
Nodal Officer (FCA)